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Use of Cross-Correlation Analysis of EEG Signals for Detecting Risk Level for Development of Schizophrenia

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Abstract

Study of the cross-correlation between EEGs can be used to detect susceptibility to schizophrenia in children and adolescents (11 to 14 years old). To find diagnostic characters, we use the cross-correlation technique based on the correlation coefficient and the Fourier spectrum of the cross-correlation functions. Our findings make it possible to associate the degree of frequency-phase synchronization in a separate frequency range with risk level of development of schizophrenia. © 2013 Springer Science+Business Media New York.

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